

Product datasheet for RC237099

CYB5R2 (NM_001302826) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CYB5R2 (NM_001302826) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CYB5R2
Synonyms: B5R.2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC237099 representing NM_001302826
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAACTCCAGGAGGAGAGCAATCACCTTACAGGACCCTGAAGCCAAGTACCCGCTGCCCTTGATTG
 AGAAAGAGAAAATCAGCCACAACACCCGGAGGTTCCGCTTTGGACTGCCTTCGCCGACCATGTCTTAGG
 GCTTCCTGTAGGTAAGTATGTCCAGCTCTGGCAAAAATCGATAATGAATTGGTGGTCAGGGCTTACACC
 CCTGTCTCCAGTGATGACAGAGGCTTTGTGGACCTAATTATAAAGATCTACTCAAAAATGTACACC
 CCCAATATCCTGAAGGTGGGAAGATGACTCAGTATTTGGAGAACATGAAAATCGGGGAGACCATCTTTT
 TCGAGGGCCAAGGGGACGCTTGTTTACCATGGGCCAGGGAATCTTGAATCAGACCAGACCAGACGAGT
 GAGCCTAAAAAACACTGGCCGATCACCTGGGAATGATTGCTGGGGGCACAGGCATCACCCCATGTTGC
 AGCTATTTCGCCACATACCAAGGACCCAGTGACAGGACCAGGATGTCCCTCATCTTGGCAACCAGGT
 CAGTTCCTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC237099 representing NM_001302826
 Red=Cloning site Green=Tags(s)

MNSRRREPITLQDPEAKYPLPLIEKEKISHNTRFRFGLPSPDHVGLPVGNYVQLLAKIDNELVVRAYT
 PVSSDDDRGFVDLIIKIYFKNVHPQYPEGGKMTQYLENMKIGETIFFRGRGRLFYHGPGLGIRPDQTS
 EPKKTLDHLMGIAGGTGTPMLQLIRHITKDPDRTRMSLIFANQVSSC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001302826

ORF Size: 3308 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001302826.1](#), [NP_001289755.1](#)

RefSeq Size: 1713 bp

RefSeq ORF: 831 bp

Locus ID: 51700

UniProt ID: [Q6BCY4](#)

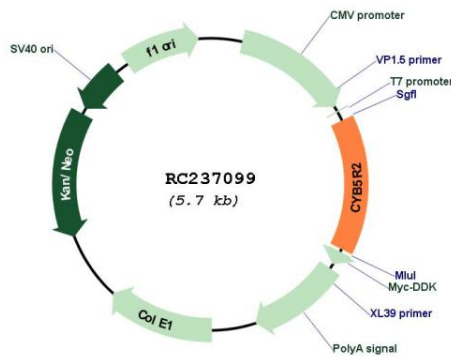
Cytogenetics: 11p15.4

Protein Families: Druggable Genome

MW: 21.5 kDa

Gene Summary: The protein encoded by this gene belongs to the flavoprotein pyridine nucleotide cytochrome reductase family of proteins. Cytochrome b-type NAD(P)H oxidoreductases are implicated in many processes including cholesterol biosynthesis, fatty acid desaturation and elongation, and respiratory burst in neutrophils and macrophages. Cytochrome b5 reductases have soluble and membrane-bound forms that are the product of alternative splicing. In animal cells, the membrane-bound form binds to the endoplasmic reticulum, where it is a member of a fatty acid desaturation complex. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2014]

Product images:



Circular map for RC237099